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EXRAND-M-44  
22 June 1971

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**COMIREX SUBCOMMITTEE  
For  
EXPLOITATION RESEARCH AND DEVELOPMENT**

**Minutes of Meeting Held in Executive Conference Room, TOPOCOM  
0900-1130, Wednesday, 2 June 1971**

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EXRAND members and observers arrived by 0910 and prior to the meeting informally met [redacted] Commanding Officer of TOPOCOM. The meeting was called to order at 0915 by the Chairman and [redacted] acting as host, welcomed the subcommittee to TOPOCOM.

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The first order of business was the announcement that the Air Force representative, [redacted] was attending his last EXRAND meeting. The members thanked him for his service and the Chairman

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GROUP 1: EXCLUDED FROM  
AUTOMATIC DOWNGRADING  
AND DECLASSIFICATION

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[REDACTED]  
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presented him with a certificate for outstanding and dedicated service. [REDACTED] commented at his pleasure in serving four and one-half years with the subcommittee. His successor and new Air Force member is now [REDACTED] USAF.

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[REDACTED] Security Officer for TOPOCOM, gave a short security briefing for the benefit of the members.

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1. Approval of Minutes.

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The minutes of the preceding meeting were unanimously approved.

2. Announcements.

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a. [REDACTED] stated that there is an apparent need for coordination and standardization of photogrammetric techniques within the imagery evaluation community. There have been good but varied techniques for reduction of data; however, there is now need for coordination of this data. He stated that awareness of this came about as a result of comments on a beneficial suggestion on photogrammetry. He recommended that some member of the Community with representation at EXRAND, possibly NPIC, sponsor a meeting to discuss standardization and requirements within the community. He thought that EXRAND should have a concern for the development of new techniques for photographic data reduction and that there was a need for the continuing exchange of ideas among photogrammetric analysts. He acknowledged that this was primarily a concern for EXSUBCOM, but he believed that the area of new techniques for photogrammetric solutions is an appropriate matter for EXRAND interest. Some of the members expressed doubt as to the applicability of this area to EXRAND. As it stands now, [REDACTED] will investigate the chances for NPIC to provide the sponsoring media at a technical level.

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b. [REDACTED] stated that a more likely place for EXRAND support and action would be in the area of exploitation of techniques in imagery manipulation. [REDACTED] agreed that work in this area was needed but that it could be handled through the Technical Task Team. Accordingly, [REDACTED] will arrange to provide additional information on this subject (image manipulation) at the next meeting, 28 July.

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c. [ ] displayed a copy of the Cartographic Production Equipment Manual with the latest changes and stated that a copy could be provided to those members interested in obtaining a copy. A direct request should be made to TOPOCOM for such a copy.

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d. [ ] reported on the following items: (1) A new report is available on maintenance procedures on microdensitometers by EKC. (2) NRO is officially announcing that the FULTRON Viscous Processors at NRTSC are now fully certified for production operations. (3) NRO has established an EKC technical representative at NRTSC to service the new processing system. This is the first such system established outside of the EKC Rochester plant. Any special interest visit requests should be made through [ ] (4) [ ] reported on the latest status of the new system. He also stated that all 6.6 spools and cans had been delivered to the community. (Coordination of orders and distribution was handled through the PCT and EXRAND.)

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### 3. Old Business.

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a. The future agendas, special briefings, and trips for EXRAND were discussed. [ ] stated that his briefing on 28 July would concern the impact of technological developments on future exploitation R&D.

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b. The trip to SAMSO, Vandenberg, and STC appeared firm for 2-6 August. An additional visit to Beale AFB was included for those members who wish to fit it in on Friday, 6 August. The Executive Secretary requested responses by 16 June from all members intending to make this trip. All other planned items will stand as listed on the attachment.

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c. [ ] announced that there have been recent important results and accomplishments in human factors research and development in imagery exploitation and he suggested that [ ] of NPIC present this area at a future EXRAND meeting.

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**4. Old Business.**

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a. [ ] mentioned the fact that a new interim system had been introduced to the community. The Executive Secretary requested that, if possible, EXRAND receive a briefing on this new system as it would relate to potential exploitation equipment development. Both [ ] thought that since some members knew nothing about the system and would be concerned with its exploitation that they may be briefed in on the system. (Subsequent to the meeting, NRO approved a special briefing for selected EXRAND membership and observers on 22 June.)

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b. [ ] introduced the subject of the development of a new rectifier. He discussed the background of the development which was listed in the Technical Task Team report on R&D programs. He stated that there was much community interest generated in this development and questioned the degree of EXRAND support for the project. [ ] stated that the equipment was considered very important and that the Air Force (RADC) had been sponsoring the subject for several years. There are now no financial difficulties involved with the project. He announced that Bausch and Lomb had contracted for this project about two weeks ago. The project is basically a step and repeat rectifier that will rectify the entire format of the [ ] in five degree increments. The contract is about [ ] It was noted that RADC would present a briefing on the rectifier on 18 August. The attachment is a rough diagram of the new contracted rectifier.

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The business portion of the meeting of EXRAND ended at 1030.

**5. Special Briefing.**

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TOPOCOM presented their R&D program which had recently been approved for the conduct of pre-exploitation procedures of the product [ ]

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Following the briefings, committee members were given a tour of the TOPOCOM SPA production area.

[Redacted]

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**Executive Secretary, EXRAND**

**Attachment:**  
**Diagram, as stated**

[Redacted]

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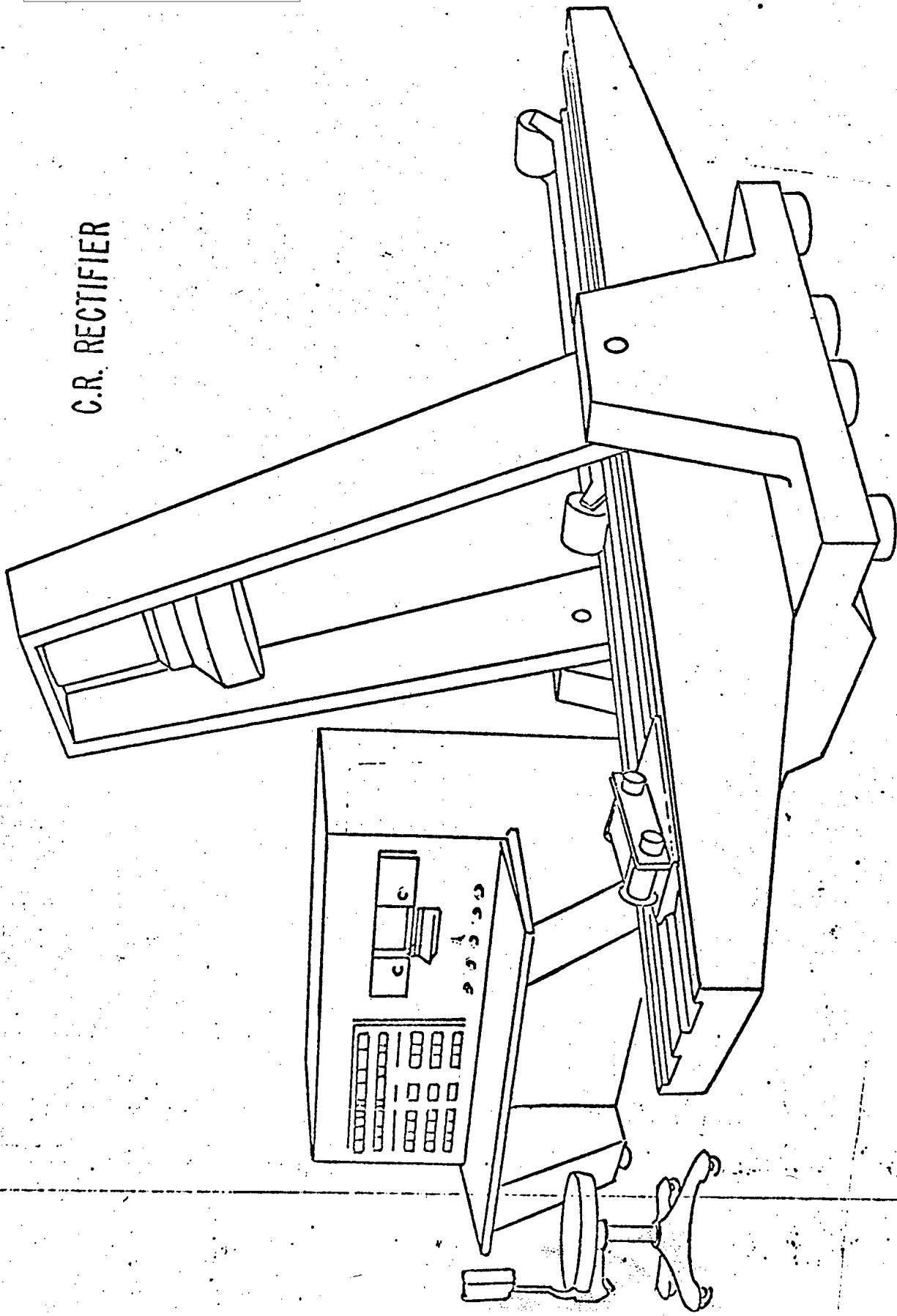
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C.R. RECTIFIER

ATTACHMENT TO:

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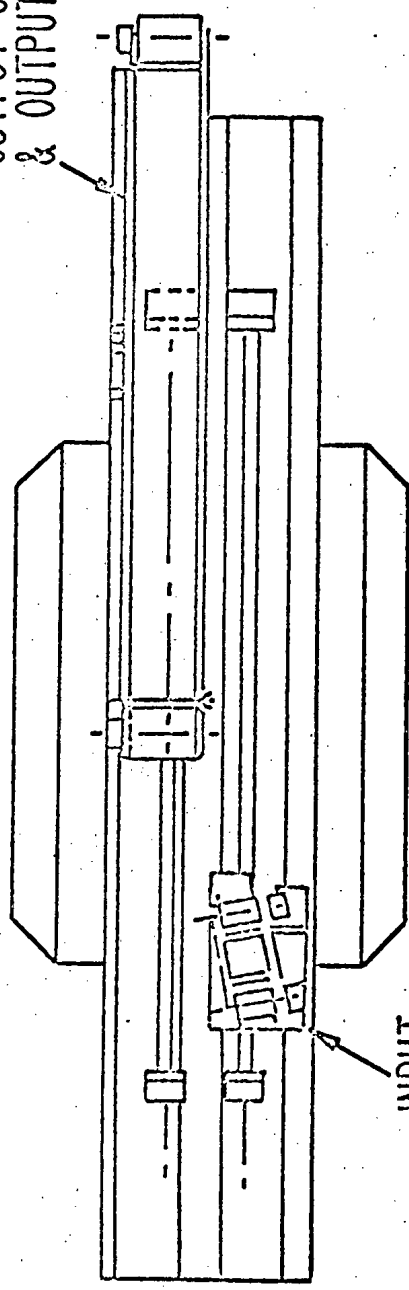
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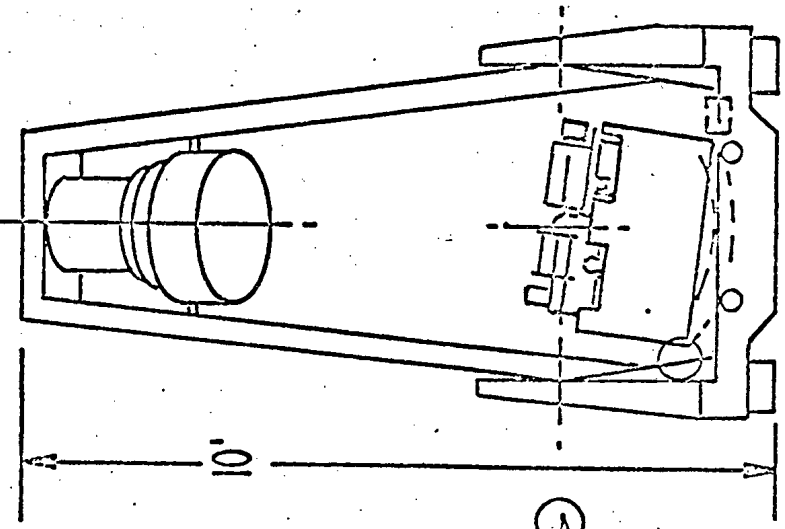
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C.R. RECTIFIER  
(OVERALL VIEW)

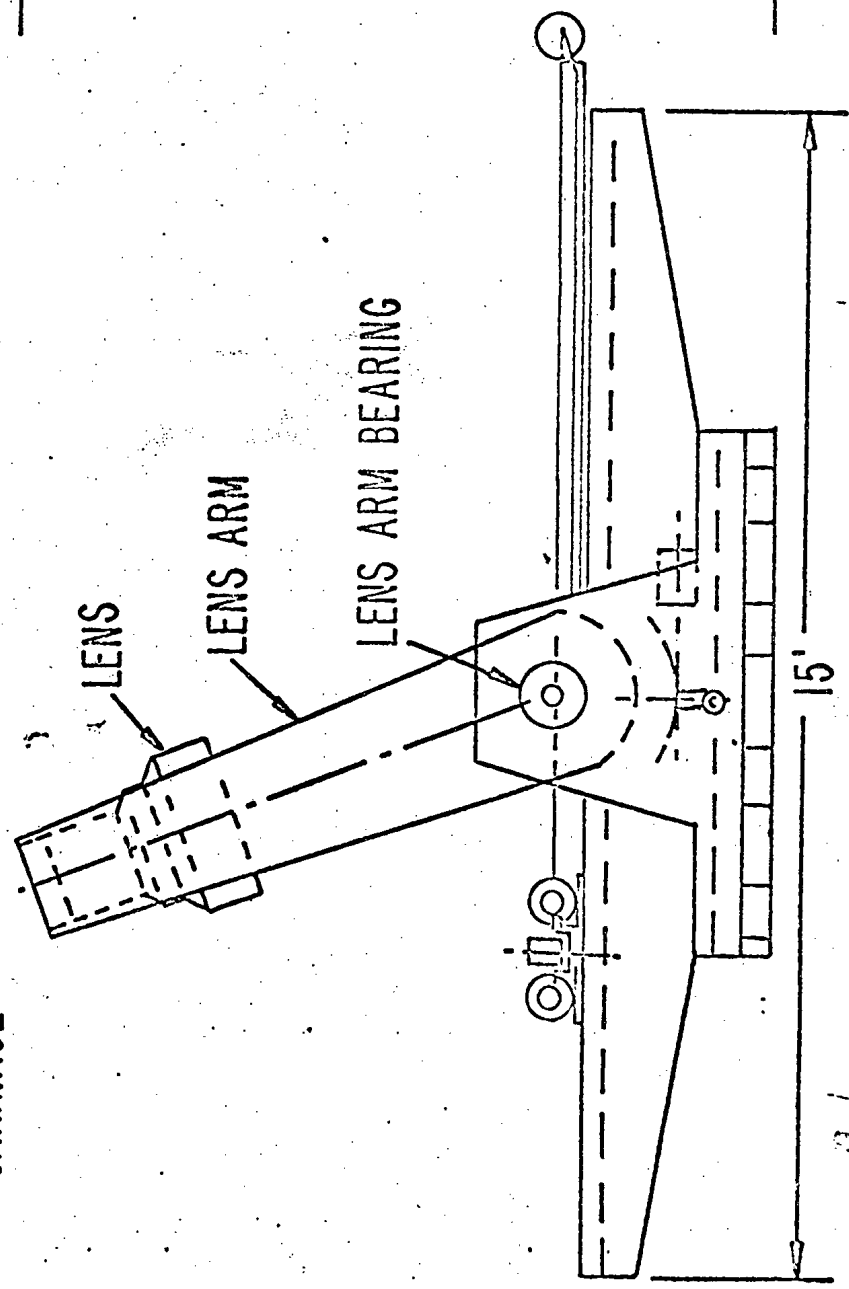
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& OUTPUT STAGE



INPUT  
CARRIAGE



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LENS ARM BEARING

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